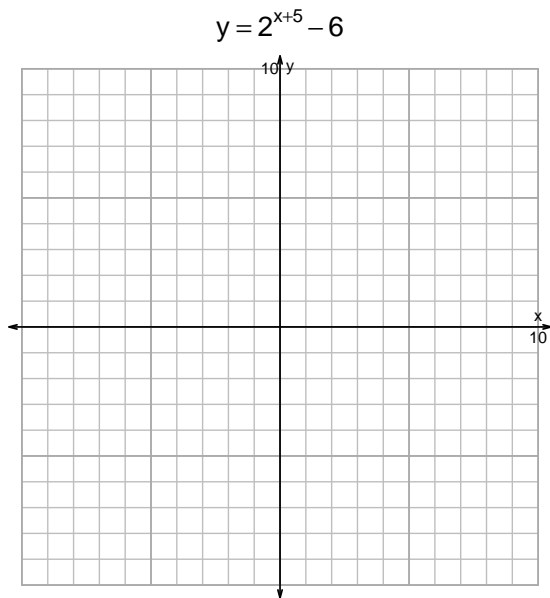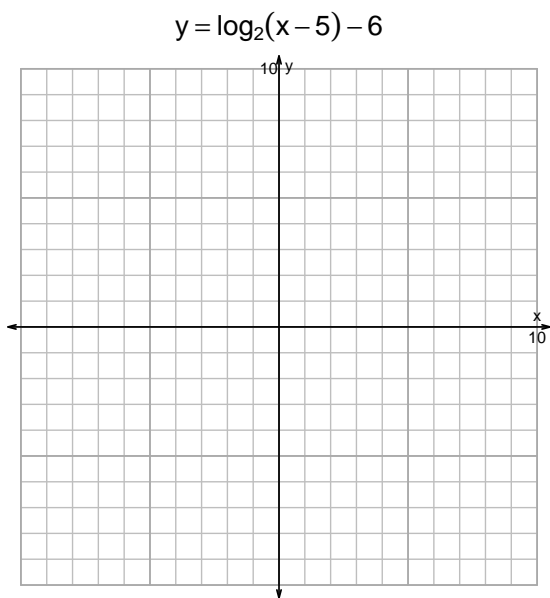# s18quiz: EXP LOG (QUIZ v247)
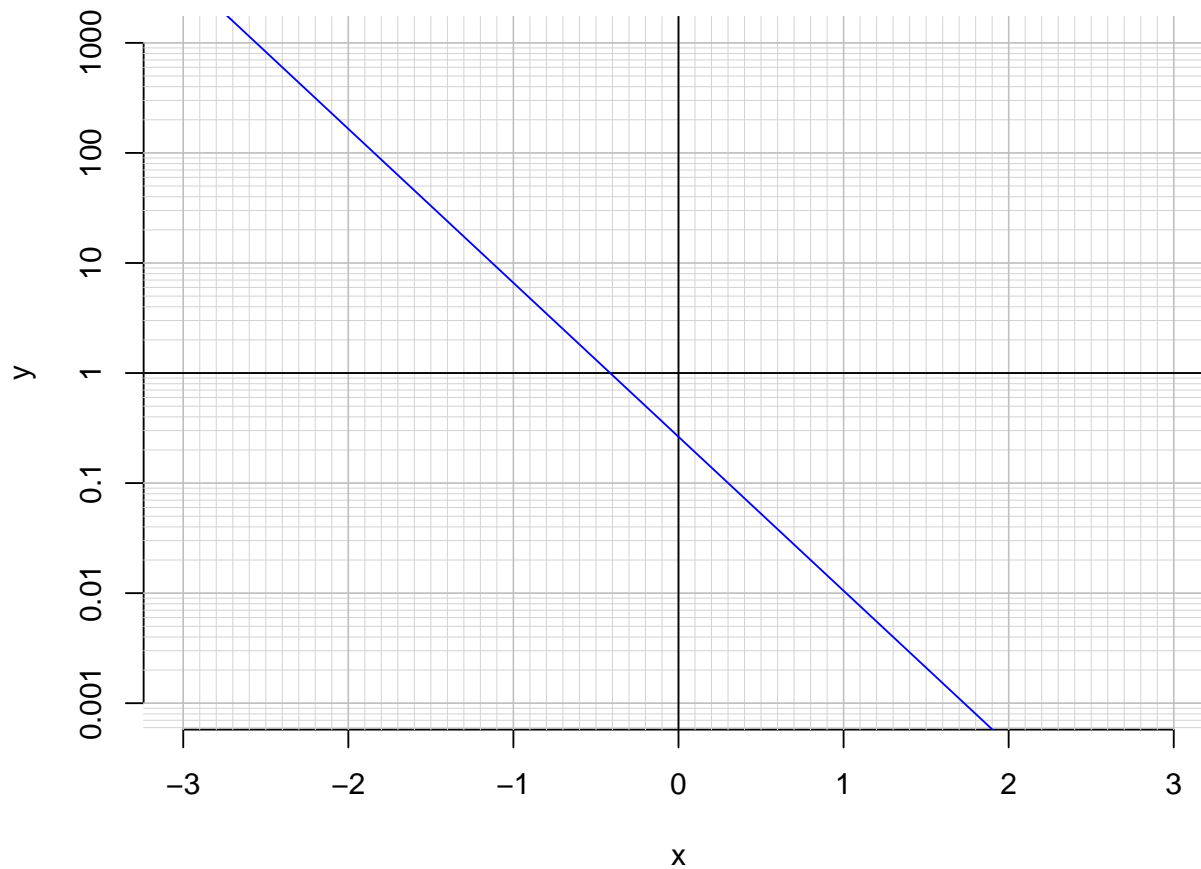
1. Graph $y = \log_2(x-5) - 6$ and $y = 2^{x+5} - 6$ on the grids below. Also, draw any asymptotes with dotted lines.

$$y = \log_2(x-5) - 6$$

$$y = 2^{x+5} - 6$$

2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-29 = \left(\frac{-7}{3}\right) \cdot 2^{-5t/4}$$

3. An exponential function $f(x) = 0.263 \cdot e^{-3.22x}$ is graphed below on a semi-log plot.

a. Using the plot above, evaluate $f(1.3)$.

b. Express $f^{-1}(x)$, the inverse of f.

c. Using the plot above, evaluate $f^{-1}(600)$.